C-A OPERATIONS PROCEDURES MANUAL

8.15.6 Procedure for Validating the Chipmunk Radiation Monitoring System

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Attachments

Hand Processed Changes

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Collider-Accelerator Department Chairman Date

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8.15.6 Procedure for Validating the Chipmunk Radiation Monitoring System

1. Purpose

1.1 This procedure provides instructions to the Chipmunk System Specialist (CSS) for validating the Chipmunk Radiation Monitoring System. The procedure is executed immediately before removing a Chipmunk for annual recalibration or decommissioning a Chipmunk that has not failed in service.

2. Responsibilities

2.1 The CSS is responsible for executing this procedure just prior to removing a Chipmunk for annual recalibration or decommissioning a Chipmunk that has not failed in service.

2.2 The CSS is responsible for reporting to the Chipmunk System Engineer (CSE) the results of the validation tests.

2.3 The CSE is responsible for investigating any potential nonconformance.

3. Prerequisites

3.1 The Chipmunk Validation Sheet, C-A-OPM-ATT 8.15.6.a, for the Chipmunk being removed for recalibration or being decommissioned is available for completion.

3.2 The CSS is trained to handle the Chipmunk Radiation Test Source and conduct the Radiation Source Check of the Chipmunk.

3.3 The CSS is wearing a TLD badge and, where required, an Alarming Dosimeter.

4. Precautions

4.1 The procedure must be executed before taking power off the Chipmunk that is being removed for annual recalibration or decommissioning.

5. Procedure

5.1 The CSS will place the Radiation Test Source on the chamber (white) box of the Chipmunk, under the right handle bracket. After the Chipmunk meter reading has stabilized the counts will be read over a one minute period, directly from the Chipmunk BNC output, using a Calibrated Scaler. Record the counts in the Out-of-Service Reading column of the Chipmunk Validation Sheet.

5.2 The Chipmunk meter reading will also be recorded in the Out-of-Service Reading column of the Chipmunk Validation Sheet.

5.2.1 The respective readings in the In-Service and Out-of-Service Columns must agree to ± 20%. For DC Chipmunks allowance must be made for the "divide x 10" reading for the counts in the In-Service column.

5.3 The CSS will forward the Chipmunk Validation Sheet to the CSE for review and concurrence.

5.4 The CSE will investigate all measurements that register a disagreement between In-Service and Out-of-Service readings of > ± 20%.

5.5 The CSE will report nonconformances in the Chipmunk Radiation Monitoring System to the C-A Department Quality Office.

6. Documentation

6.1 Completed Chipmunk Validation Sheet will be maintained in the Chipmunk Computer Interface Test Binder.

6.2 The Access Controls Group (ACG) maintain the Chipmunk Validation Sheet Binder. The Facility Support Group (FS) will also maintain a copy of this binder.

7. References

7.1 C-A-OPM 8.15.4, Procedure for functional Test of the Chipmunk Computer Interface

8. Attachments

8.1 C-A-OPM-ATT 8.15.6.a, "Chipmunk Validation Sheet"